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Malignant transformation of the human endometrium is associated with overexpression of lactoferrin messenger RNA and protein. Walmer DK, Padin CJ, Wrona MA, Healy BE, Bentley RC, Tsao MS, Kohler MF, McLachlan JA, Gray

Department of Obstetrics and Gynecology, Duke University Medical Center, Durham, North Carolina 27710.

correlates directly with the period of peak epithelial cell proliferation. In this study, we examine the expression of summary, lactoferrin is expressed in a region of normal endometrium known as the zona basalis which is not shed examined overexpress lactoferrin. This tumor-associated increase in lactoferrin expression includes an elevation between the presence of progesterone receptors and lactoferrin in all 8 lactoferrin-positive adenocarcinomas. In immunohistochemistry, Western immunoblotting, and Northern and in situ RNA hybridization techniques. Our immunohistochemistry. Although the degree of lactoferrin expression in the adenocarcinomas did not correlate actoferrin. We also observe distinct cytoplasmic and nuclear immunostaining patterns under different fixation reproductive tract. Serial sections of malignant specimens show a good correlation between the localization of lactoferrin mRNA and protein in human endometrium, endometrial hyperplasias, and adenocarcinomas using results reveal that lactoferrin is expressed in normal cycling endometrium by a restricted number of glandular in the mRNA and protein of individual cells and an increase in the number of cells expressing the protein. In with the tumor stage, grade, or depth of invasion in these 12 patients, there was a striking inverse correlation conditions in both normal and malignant epithelial cells, similar to those previously reported in the mouse In the mouse uterus, lactoferrin is a major estrogen-inducible uterine secretory protein, and its expression epithelial cells located deep in the zona basalis. Two thirds (8 of 12) of the endometrial adenocarcinomas comparison, only 1 of the 10 endometrial hyperplasia specimens examined demonstrates an increase in lactoferrin mRNA and protein in individual epithelial cells by in situ RNA hybridization and

with menstruation and is frequently overexpressed by progesterone receptor-negative cells in endometrial adenocarcinomas.

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